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Parallel Processing Symposium, 1997. Proceedings., 11th International 1-5 April 1997 Page(s):187 - 191

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Toledo, S.;

Parallel Processing Symposium, 1996., Proceedings of IPPS '96, The 10th International 15-19 April 1996 Page(s):479 - 484

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Flanagan, J.K.; Nelson, B.E.; Archibald, J.E.; Thompson, G.;

Modeling, Analysis, and Simulation of Computer and Telecommunication Systems, 1996., Proceedings of the Fourth International Workshop on 1-3 Feb. 1996 Page(s):37 - 43

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Hadipanteli, S.; Kumar, P.; Wang, S.;  
Military Communications Conference, 1998. MILCOM 98. Proceedings., IEEE  
Volume 1, 18-21 Oct. 1998 Page(s):108 - 112 vol.1  
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2. **Predicting real-world performance for key parameters in a CDMA cellular system**  
Labedz, G.; Love, R.; Stewart, K.; Menich, B.;  
Vehicular Technology Conference, 1996. 'Mobile Technology for the Human Race', IE  
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**41** [A tool for creating predictive performance models from user interface demonstrations](#)

Scott E. Hudson, Bonnie E. John, Keith Knudsen, Michael D. Byrne

 November 1999 **Proceedings of the 12th annual ACM symposium on User interface software and technology**

 Full text available: [pdf\(113.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A central goal of many user interface development tools has been to make the construction of high quality interfaces easy enough that iterative design approaches could be a practical reality. In the last 15 years significant advances in this regard have been achieved. However, the evaluation portion of the iterative design process has received relatively little support from tools. Even though advances have also been made in usability evaluation methods, nearly all evaluation is still done & ...

**Keywords:** GOMS, event logs, task modeling, tool support for evaluation, toolkits

**42** [Impact of channel models on simulation of large scale wireless networks](#)

Mineo Takai, Rajive Bagrodia, Addison Lee, Mario Gerla

 August 1999 **Proceedings of the 2nd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

 Full text available: [pdf\(906.82 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**43** [Reviewed papers: Using spreadsheets as a simple and effective teaching tool for predicting and visualizing parallel program performance](#)

Zoltan Juhasz

 June 1999 **ACM SIGCSE Bulletin**, Volume 31 Issue 2

 Full text available: [pdf\(449.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes how we can use a spreadsheet program as an inexpensive and readily available tool to help students understand the execution behavior of parallel programs. Using the proposed method a performance prediction model can be created in a matter of minutes and the performance of the parallel system can be visualized and animated by using standard three-dimensional surface plots and user interface control objects.

**44** [The international symposium on software engineering for parallel and distributed](#)

**systems PDSE '99**

Peter R. Croll, Hesham El-Rewini

**May 1999 Proceedings of the 21st international conference on Software engineering**Full text available:  [pdf\(196.66 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**45 Performance prediction tools for parallel discrete-event simulation**

Chu-Cheow Lim, Yoke-Hean Low, Boon-Ping Gan, Sanjay Jain, Wentong Cai, Wen Jing Hsu, Shell Ying Huang

**May 1999 Proceedings of the thirteenth workshop on Parallel and distributed simulation**Full text available:  [pdf\(788.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
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We have developed a set of performance prediction tools which help to estimate the achievable speedups from parallelizing a sequential simulation. The tools focus on two important factors in the actual speedup of a parallel simulation program : (a) the simulation protocol used, and (b) the inherent parallelism in the simulation model. The first two tools are a performance/parallelism analyzer for a conservative, asynchronous simulation protocol, and a similar analyzer for a conservative, synchro ...

**46 Context-sensitive learning methods for text categorization**

William W. Cohen, Yoram Singer

**April 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 2**Full text available:  [pdf\(256.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two recently implemented machine-learning algorithms, RIPPERand sleeping-experts for phrases, are evaluated on a number of large text categorization problems. These algorithms both construct classifiers that allow the "context" of a word w to affect how (or even whether) the presence or absence of w will contribute to a classification. However, RIPPER and sleeping-experts differ radically in many other respects: ...

**Keywords:** context-sensitive models, mistake-driven algorithms, on-line learning, rule learning, text categorization

**47 Querying very large multi-dimensional datasets in ADR**

Tahsin Kurc, Chialin Chang, Renato Ferreira, Alan Sussman, Joel Saltz

**January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**Full text available:  [pdf\(121.73 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**48 A cost-benefit scheme for high performance predictive prefetching**

Vivekanand Vellanki, Ann L. Chervenak

**January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**Full text available:  [pdf\(169.68 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**49 Enterprise architecture for business process simulation**

Ali Bahrami, Deborah Sadowski, Soheila Bahrami

**December 1998 Proceedings of the 30th conference on Winter simulation**Full text available:  pdf(174.64 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**50** [On a language based method for software performance engineering of client/server systems](#) 

Daniel A. Menascé, Hassan Gomaa

**October 1998 Proceedings of the first international workshop on Software and performance**Full text available:  pdf(837.51 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**51** [Managing performance requirements for information systems](#) 

Brian A. Nixon

**October 1998 Proceedings of the first international workshop on Software and performance**Full text available:  pdf(2.06 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**52** [Performance analysis of time warp simulation with cascading rollbacks](#) 

Seng Chuan Tay, Yong Meng Teo, Rassul Ayani

**July 1998 ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation**, Volume 28 Issue 1Full text available:  pdf(695.52 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#) Publisher Site

**53** [An analytic behavior model for disk drives with readahead caches and request reordering](#) 

Elizabeth Shriner, Arif Merchant, John Wilkes

**June 1998 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems**, Volume 26 Issue 1Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern disk drives read-ahead data and reorder incoming requests in a workload-dependent fashion. This improves their performance, but makes simple analytical models of them inadequate for performance prediction, capacity planning, workload balancing, and so on. To address this problem we have developed a new analytic model for disk drives that do readahead and request reordering. We did so by developing performance models of the disk drive components (queues, caches, and the disk mechanism) and ...

**54** [Recruiting, retaining, and developing IT professionals: an empirically derived taxonomy of human resource practices](#) 

Ritu Agarwal, Thomas W. Ferratt

**June 1998 Proceedings of the 1998 ACM SIGCPR conference on Computer personnel research**Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**55 Data base design principles for striping and placement of delay-sensitive data on disks** 

Stavros Christodoulakis, Fenia A. Zioga

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**56 Experiment management support for performance tuning** 

Karen L. Karavanic, Barton P. Miller

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**Full text available:  [pdf\(69.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The development of a high-performance parallel system or application is an evolutionary process. It may begin with models or simulations, followed by an initial implementation of the program. The code is then incrementally modified to tune its performance and continues to evolve throughout the application's life span. At each step, the key question for developers is: *how and how much did the performance change?* This question arises comparing an implementation to models or simu ...

**57 Device and technology optimizations for low power design in deep sub-micron regime** 

Kai Chen, Chenming Hu

August 1997 **Proceedings of the 1997 international symposium on Low power electronics and design**Full text available:  [pdf\(489.22 KB\)](#) Additional Information: [full citation](#), [references](#)**58 A quality planning model for distributed multimedia in the virtual cockpit** 

Mark Claypool, John Riedl

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** communications/networking/VOD applications**59 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems** 

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1Full text available:  [pdf\(7.24 MB\)](#) Additional Information: [full citation](#), [citations](#)**60 A testbed for parallel simulation performance prediction** 

Alois Ferscha, James Johnson

November 1996 **Proceedings of the 28th conference on Winter simulation**Full text available:  [pdf\(907.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

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**61** [COMNET III: object-oriented network performance prediction](#)

Jeffry Jones

December 1995 **Proceedings of the 27th conference on Winter simulation**

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**62** [Mobile wireless network system simulation](#)

Joel Short, Rajive Bagrodia, Leonard Kleinrock

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Full text available: [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**63** [Dealing with non-functional requirements: three experimental studies of a process-oriented approach](#)

Lawrence Chung, Brian A. Nixon

April 1995 **Proceedings of the 17th international conference on Software engineering**

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**64** [Performance prediction of parallel systems with scalable specifications—methodology and case study](#)

H. Wabnig, G. Haring

April 1995 **ACM SIGMETRICS Performance Evaluation Review**, Volume 22 Issue 2-4

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



This paper describes the general methodology of specifying parallel systems within the PAPS (Performance Analysis of Parallel Systems) toolset and presents a case study that shows the applicability and accuracy of the Petri net based performance prediction tools contained in the toolset. Parallel systems are specified in the PAPS toolset by separately defining the program workload, the hardware resources, and the mapping of the program to the hardware. The resource parameterization is described ...

**65** Simulation for agile control of aerospace manufacturing

Ray Rolen, Richard A. Kilgore

December 1994 **Proceedings of the 26th conference on Winter simulation**Full text available:  [pdf\(647.79 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**66** Performance prediction of parallel systems with scalable specifications—methodology and case study

Harald Wabnig, Günter Haring

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 22 Issue 1Full text available:  [pdf\(182.26 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**67** A preliminary analysis of the products of HCI research, using pro forma abstracts

William Newman

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**Full text available:  [pdf\(871.13 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** abstracts, human-computer interaction, radical solutions, research methods, research products, system design**68** Development and evaluation of a taxonomical model of behavioral representation techniques

J. D. Chase, Robert S. Schulman, H. Rex Hartson, Deborah Hix

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**Full text available:  [pdf\(757.05 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** behavioral representation techniques, empirical evaluation, interaction development, model, usability**69** Hedonic price analysis of workstation attributes

H. Raghav Rao, Brian D. Lynch

December 1993 **Communications of the ACM**, Volume 36 Issue 12Full text available:  [pdf\(3.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** Hedonic price functions, statistics, workstations**70** The Parallel Protocol Engine

Matthias Kaiserswerth

December 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 6

Full text available:  pdf(1.65 MB)

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**71 The modeling methodology, model specifications and development of CASI: CASE/Architecture Simulation Integration**

Arnold J. Almanzor, Paul R. Work

December 1993 **Proceedings of the 25th conference on Winter simulation**

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**72 Software evolution: Maintenance productivity: observations based on an experience in a large system environment**

Carl S. Hartzman, Charles F. Austin

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1**

Full text available:  pdf(1.95 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper is concerned with the economical maintenance of large software products. It examines the software maintenance process and outlines a framework, based on cost-benefit, within which changes to the maintenance environment affecting future maintenance productivity can be evaluated. It also looks at the rationale for the recommendations that are made. The recommendations include the formation of a team charged with overseeing the maintainability of the products and the implementation of ce ...

**73 Estimating accesses in partitioned signature file organizations**

Paulo Ciaccia, Pavel Zezula

April 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 2

Full text available:  pdf(508.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We show that performance of some basic methods for the partitioning of signature files, namely Quick Filter and Fixed Prefix, can be easily evaluated by means of a closed formula. The approximation is based on well-known results from probability theory, and, as shown by simulations, introduces no appreciable errors when compared with the exact, cumbersome formulas used so far. Furthermore, we prove that the exact formulas for the two methods coincide. Although this does not imply that the t ...

**Keywords:** access method, information retrieval, performance evaluation, superimposed coding

**74 A status report on research in transparent informed prefetching**

R. Hugo Patterson, Garth A. Gibson, M. Satyanarayanan

April 1993 **ACM SIGOPS Operating Systems Review**, Volume 27 Issue 2

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper focuses on extending the power of caching and prefetching to reduce file read latencies by exploiting application level hints about future I/O accesses. We argue that systems that disclose high-level knowledge can transfer optimization information across module boundaries in a manner consistent with sound software engineering principles. Such Transparent Informed Prefetching (TIP) systems provide a technique for converting the high throughput of new technologies such as disk arrays an ...

**75** The winter simulation conference: perspectives of the founding fathers

Michel Araten, Harold G. Hixson, Austin C. Hoggatt, Philip J. Kiviat, Michael F. Morris, Arnold Ockene, Julian Reitman, Joseph M. Sussman, James R. Wilson

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available:  [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**76** Object-oriented network performance prediction

Jeffry Jones, Robb Mills, John Goble

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available:  [pdf\(271.78 KB\)](#) Additional Information: [full citation](#), [index terms](#)

**77** Dynamic partitioning of signature files

P. Zezula, F. Rabitti, P. Tiberio

October 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 4

Full text available:  [pdf\(2.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**78** Principles and realization strategies of multilevel transaction management

Gerhard Weikum

March 1991 **ACM Transactions on Database Systems (TODS)**, Volume 16 Issue 1

Full text available:  [pdf\(3.72 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

One of the demands of database system transaction management is to achieve a high degree of concurrency by taking into consideration the semantics of high-level operations. On the other hand, the implementation of such operations must pay attention to conflicts on the storage representation levels below. To meet these requirements in a layered architecture, we propose a multilevel transaction management utilizing layer-specific semantics. Based on the theoretical notion of multilevel serial ...

**Keywords:** atomicity, persistence, concurrency control, multilevel transactions, persistence, serializability

**79** Economic analysis of microcomputer hardware

Brian D. Lynch, H. Raghav Rao, Winston T. Lin

October 1990 **Communications of the ACM**, Volume 33 Issue 10

Full text available:  [pdf\(2.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Economic analysis of the hardware characteristics of the personal computer segment of the microcomputer market indicates that the variables that most affect cost are the bundle of attributes offered by the micros. Interestingly, certain technological characteristics found to be important explanatory variables for cost in larger computers were not found to be significant for micros.

**80** Accurate rendering technique based on colorimetric conception

Atsushi Takagi, Hitoshi Takaoka, Tetsuya Oshima, Yoshinori Ogata

September 1990 **ACM SIGGRAPH Computer Graphics, Proceedings of the 17th annual conference on Computer graphics and interactive techniques**, Volume 24

Issue 4

Full text available: [!\[\]\(70d2c6078ab65d8fee937ad46006682c\_img.jpg\) pdf\(7.65 MB\)](#)

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We have developed a rendering technique to generate realistic images meeting designers' requirements by strictly analyzing various physical phenomena relevant to the appearance of actual objects. We have numerically compared the results of the calculations using this technique with colorimetry values. As a result, both values were virtually equal, so we have been able to confirm the effectiveness of the established technique. Application of this technique to car design, which has not been realized ...

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